## RAW SEQUENCE LISTING PATENT APPLICATION US/08/469,492

DATE: 05/09/97 TIME: 13:57:17

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING  eneral Information:  APPLICANT: Weiner, Howard Miller, Ariel
2 3	(1) G	eneral Information:
4	(1)	eneral información.
5	(i)	APPLICANT: Weiner, Howard
6		Miller, Ariel
7		Zheng, Zhengi
8		Al-Sabbagh, Ahmad
9		
10	(ii)	TITLE OF INVENTION: BYSTANDER SUPPRESSION OF AUTOIMMUNE
11		DISEASES
12		WINDER OF GEOMETRIC 12
13	(111)	NUMBER OF SEQUENCES: 13
14 15	( i )	CORRESPONDENCE ADDRESS:
16	(10)	(A) ADDRESSEE: Darby & Darby
17	·	(B) STREET: 805 Third Ave.
18		(C) CITY: New York
19		(D) STATE: New York
20		(E) COUNTRY: U.S.A.
21		(F) ZIP: 10022
22		
23	(V)	COMPUTER READABLE FORM:
24		(A) MEDIUM TYPE: Floppy disk
25		(B) COMPUTER: IBM PC compatible
26		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
27		(D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28	(4)	GUDDENM ADDITGAMION DAMA.
29 30	(01)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US 08/469,492
31		(B) FILING DATE: 06-JUN-1995
32		(C) CLASSIFICATION: 424
33		(C) CHARRITON, 121
34	(vii)	PRIOR APPLICATION DATA:
35	<b>,</b> ,	(A) APPLICATION NUMBER: US 07/843,752
36		(B) FILING DATE: 28-FEB-1992
37		
38	(viii)	ATTORNEY/AGENT INFORMATION:
39		(A) NAME: GOGORIS, ADDA, C.
40		(B) REGISTRATION NUMBER: 29,714
41		(C) REFERENCE/DOCKET NUMBER: 1010/16959-US2
42		THE PRODUCTION TARGET AND TARGET
43	(ix)	TELECOMMUNICATION INFORMATION:
44		(A) TELEPHONE: (212)527-7700
45 46		(B) TELEFAX: (212)753-6237 (C) TELEX: 236687
# O		(C) IBBEA: 23000/

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58	(iii)	HVD	ישטייר	ידר <i>א</i> ו	. N(	<b>1</b>										
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60	(iv)	AMTT	- SR1	19F.	NO											
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66	(xi)	SEO	IENCI	e DES	SCRIE	וחדיים	v: si	RO TI	ON O	:1:						
67	. (222)	226						- z -								
68	Glv	Leu	Leu	Glv	Cvs	Cvs	Ala	Ara	Cvs	Leu	Val	Glv	Ala	Pro	Phe	Ala
69	1			1	5	- ]		5	-1-	10		2			15	
70	-				_											
71	Ser	Leu	Val	Ala	Thr	Glv	Leu	Cvs	Phe	Phe	Glv	Val	Ala	Leu	Phe	Cvs
72				20		2		- 2	25		2			30		-
73																
74	Glv	Cys	Glv	His	Glu	Ala	Leu	Thr	Glv	Thr	Glu	Lys	Leu	Ile	Glu	Thr
75	3	- 2	35					40	-			-	45			
76																
77	Tvr	Phe	Ser	Lys	Asn	Tyr	Gln	Asp	Tyr	Glu	Tyr	Leu	Ile	Asn	Val	Ile
78	-	50		-		-	55	-	-		-	60				
79																
80	His	Ala	Phe	Gln	Tyr	Val	Ile	Tyr	Gly	Thr	Ala	Ser	Phe	Phe	Phe	Leu
81	65				_	70		_	_		75					80
82																
83	Tyr	Gly	Ala	Leu	Leu	Leu	Ala	Tyr	Gly	Phe	Tyr	Thr	Thr	Gly	Ala	Val
84	_	_			85					90					95	
85																
86	Arg	Gln	Ile	Phe	Gly	Asp	Tyr	Lys	Thr	Thr	Ile	Cys	Gly	Lys	Gly	Leu
87			•	100					105					110		
88																
89	Ser	Ala	Thr	۷al	Thr	Gly	Gly	Gln	Lys	Gly	Arg	Gly	Ser	Arg	Gly	Gln
90			115					120					125			
91																
92	His	Gln	Ala	His	Ser	Leu	Glu	Arg	Val	Cys	His	Cys	Leu	Gly	Lys	Trp
93		130					135	•				140				
94																
95	Leu	Gly	His	Pro	Asp	_	Phe	Val	Gly	Ile		Tyr	Ala	Leu	Thr	
96	145					150					155					160
97					_		_				_		_		_	
98	Val	Trp	Leu	Leu		Phe	Ala	Cys	Ser		Val	Pro	Val	Tyr		Tyr
99					165					170					175	

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100 101	Phe	Asn Th	יר ידים	Thr	Thr	Cvs	Gln	Ser	Ile	Ala	Ala	Pro	Ser	Lvs	Thr	
102			180			-7-		185					190	2		
103																
104	Ser	Ala Se	er Tle	Glv	Thr	Leu	Cvs	Ala	Asp	Ala	Ara	Met	Tvr	Glv	Val	
105	501	19		1			200		L		5	205	- 2 -	2		
106		• •													•	
107	T.011	Pro Tr	n Asn	Δla	Phe	Pro	Glv	I.vs	Val	Cvs	Glv	Ser	Asn	Leu	Leu	
108	Dea	210	.p non	ALG		215	<b>0</b> ± <i>j</i>	_,_		-,-	220	-				
109	•	2+0														
110	Ser	Ile Cy	s I.vs	Thr	Δla	Glu	Phe	Gln	Met	Thr	Phe	His	Leu	Phe	Ile	
111	225	110 0	טוב טי		230			<b></b>		235					240	
112	220												•			
113	Ala	Ala Ph	ne Val	Glv	Ala	Ala	Ala	Thr	Leu	Val	Ser	Leu	Val	Thr	Phe	
114				245					250					255		
115																-
116	Met	Ile Al	la Ala	Thr	Tvr	Asn	Phe	Ala	Val	Leu	Lvs	Leu	Met	Glv	Ara	
117			260		-,-			265			-1-		270	2	<b>J</b>	
118																
119	Glv	Thr Ly	s Phe													
120	1	27														
121																
122	(2) INFO	RMATION	FOR	SEO :	D NO	0:2:										
123	` '			_												
124	(i)	SEQUEN	ICE CH	ARAC	reri:	STICS	3:									
125	, ,	(A) I	ENGTH	: 21	amiı	no ac	cids									
126		(B) T	YPE:	amino	ac:	id										
127		(D) T	OPOLO	GY: I	linea	ar										
128																
129	(ii)	MOLECU	JLE TY	PE: ]	pept:	ide										
130																
131	(iii)	HYPOTH	HETICA:	L: NO	)											
132																
133	(iv)	ANTI-S	SENSE:	NO												
134																
135	(V)	FRAGME	ENT TY	PE: 1	N-te	rmina	al									
136																
137	(Vi)	ORIGIN					_									
138			ORGANI													
139		(F) T	rissue	TYPI	E: i	nsul:	in									
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141	(xi)	SEQUEN	ICE DE	SCRII	OITS	N: SI	EQ II	ONO:	:2:							
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143	_	Ile Va	al Glu	Gln	Cys	Cys	Thr	Ser		Cys	Ser	Leu	Tyr		Leu	
144	1			5					10					15		
145				_												
146	Glu	Asn Ty	_	Asn												
147			20													
148				~=-												
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150	, , ,	<b>GEO::</b>	ar-		nn r	1m - ~ -	٠.									
151	(1)	SEQUEN														
152		(A) I	LENGTH	: 30	ami	no ac	cids									

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153		` '	E: amin										
154		(D) TOP	OLOGY:	linea	r								
155					_								
156	(ii)	MOLECULE	TYPE:	pepti	de								
157				_		·							
158	(iii)	НҮРОТНЕТ	'ICAL: N	0									
159													
160	(1V)	ANTI-SEN	SE: NO										
161		77											
162 163	( 🗸 )	FRAGMENT	TYPE:	N-ter	minai								
164	/ wi \	ORIGINAL	COLIDCE	•									
165	( 🗸 🗸 )		ANISM:		sanion	<b>e</b>							
166			SUE TYP										
167		(1) 110			54111								
168	(xi)	SEQUENCE	DESCRI	рттом	: SEO	TD NO	:3:						
169	(/												
170	Phe	Val Asn	Gln His	Leu	Cvs Gl	v Ser	His	Leu	Val	Glu	Ala	Leu	Tyr
171	1		5		3	•	10					15	•
172													
173	Leu	Val Cys	Gly Glu	Arg	Gly Ph	e Phe	Tyr	Thr	Pro	Lys	Thr		
174			20			25					30		
175													
176	(2) INFO	RMATION F	OR SEQ	ID NO	:4:								
177													
178	(i)	SEQUENCE				_							
179		· /	GTH: 17			ds							
180		• •	E: amin										
181		(D) TOP	OLOGY:	linea	r								
182	,,,,	VOLEGULE	mynn.										
183	(11)	MOLECULE	TYPE:	prote	ın								
184 185	/ 1 1 1 1	нуротнет	TCAT . NO	0									
186	(111)	HIPOHEL	ICAL. III	O									
187	(iv)	ANTI-SEN	SE: NO										
188	(,												
189	(vi)	ORIGINAL	SOURCE	:									
190	` '	(A) ORG	ANISM: 1	Homo :	sapien	s							
191		(F) TIS	SUE TYP	E: MB	P								
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193	(xi)	SEQUENCE	DESCRI	PTION	: SEQ	ID NO	:4:						
194													
195	Ala	Ser Gln	Lys Arg	Pro :	Ser Gl	n Arg	His	Gly	Ser	Lys	Tyr		Ala
196	1		5				10					15	
197	_	_			_			_		_	_		
198	Thr	Ala Ser		Asp /	Asn Al		Asn	Gly	Phe	Leu		Arg	Asn
199			20			25					30	•	
200	•	3 ml	al1	T	1 ~ m · G =	T] -	<b>41</b>	3	nh -	nh -	T	<b>~1.</b>	B
201	Arg	Asp Thr	GTA ITE	Leu I	_	тте	СΤΆ	arg	rne		ee τλ	σтλ	ASP
202 203		35			40					45			
203	120	Gly Ala	Dro Fuc	Ara	രിയ ഭഹ	r Glu	T.tre	Acr	Ser	Met	o Met	Pro	Δla
205	ALG	50 Ala	тто пув	-	55 55	- GIA	шyз	rah	60	145 C	1.1.E.C		ALG
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207		Arg	Thr	Ala	Met	Tyr		Ser	Leu	Pro	Gln		Ser	Asn	Gly	Arg	
208	•	65					70					75	•				80
209		_				_	<b>-</b>	•				_					_
210		Gln	Asp	Glu	Asn		Val	Val	Met	Phe		Lys	Met	Ile	Val		Pro
211						85					90					95	
212			_					_	_								
213		Arg	Thr	Pro		Pro	Ser	Gln	GIÀ	_	Gly	Arg	GTÀ	Leu		Leu	Ser
214					100					105					110		
215		_		_	_				_		_	_			_,		_
216		Arg	Phe		Trp	Gly	Ala	Glu		Gln	Arg	Arg	Pro	_	Phe	СТÀ	Tyr
217				115					120					125			
218				_			_	_	_	_			_		-1		<b>~</b> 3
219		СТÀ	Gly	Arg	Ala	Ser	Asp	_	rys	Ser	ATa	мет	_	GTÄ	Pne	Lys	GIÀ
. 220			130					135					140				
221			_				_,	_		_			_	_	-1	T	•
222			Asp	АТа	GIn	стА		Leu	ser	ьys	тте		гàг	Leu	GTÀ	GTA	
223		145					150					155					160
224			<b>~</b>	•	<b>~</b>	a1	<b>a</b>	D	14-L	. 1 -		<b>1</b>					
225		Asp	Ser	Arg	ser	_	ser	PIO	мет	Ата	_	Arg					
226						165					170						
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229 230		/ 3.5	SEQU	IDNO	י מטי	אם א מיי	ned t	em T C C	٠.								
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237 238 239 240 241	( :	iii) (iv)	HYPO ANTI ORIO	OTHET -SEI	TICAI NSE: L SOU	L: NO NO JRCE:	:		ıs								
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237 238 239 240 241 242 243	(.	iii) (iv) (vi)	HYPO ANTI ORIO (A)	OTHET I-SEN GINAI ORG TIS	ricai NSE: L SOU GANIS SSUE	NO NO JRCE:	) Bos t	cauri 3P		O NO:	:5:						
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237 238 239 240 241 242 243 244 245	(.	iii) (iv) (vi)	ANTI ORIC (A) (F)	OTHET -SENAI ORO TIS	ricai NSE: L SOU GANIS SSUE E DES	NO NO JRCE: TYPE	) Bos t E: ME	caurt 3P N: SI	EQ II			Lys	Tyr	Leu	Ala	Ser	Ala
237 238 239 240 241 242 243 244 245 246	(.	iii) (iv) (vi)	ANTI ORIC (A)	OTHET -SENAI ORO TIS	ricai NSE: L SOU GANIS SSUE E DES	NO NO JRCE: TYPE	) Bos t E: ME	caurt 3P N: SI	EQ II			Lys	Tyr	Leu	Ala	Ser 15	Ala
237 238 239 240 241 242 243 244 245 246 247	(.	iii) (iv) (vi) (xi)	ANTI ORIC (A) (F)	OTHET -SENAI ORO TIS	ricai NSE: L SOU GANIS SSUE E DES	NO NO JRCE: TYPE SCRIE Arg	) Bos t E: ME	caurt 3P N: SI	EQ II		Ser	Lys	Tyr	Leu	Ala		Ala
237 238 239 240 241 242 243 244 245 246 247 248	(.	iii) (iv) (vi) (xi)	ANTI ORIC (A) (F)	OTHET I-SENAI ORG TIS JENCE	FICAI NSE: L SOU GANIS SSUE E DES	NO NO JRCE: EM: H TYPH SCRIE Arg	Bos te: ME	cauru 3P V: SI Ser	EQ II Gln	Arg	Ser 10					15	
237 238 239 240 241 242 243 244 245 246 247 248 249	(.	iii) (iv) (vi) (xi)	ANTI ORIC (A) (F) SEQU	OTHET I-SENAI ORG TIS JENCE	FICAI NSE: L SOU GANIS SSUE E DES	NO NO JRCE: EM: H TYPH SCRIE Arg	Bos te: ME	cauru 3P V: SI Ser	EQ II Gln	Arg	Ser 10					15	
237 238 239 240 241 242 243 244 245 246 247 248 249 250	(.	iii) (iv) (vi) (xi) Ala 1	ANTI ORIC (A) (F) SEQU Ala	OTHET I-SEN GINAI OTIS UENCE Gln Lys	rical NSE: L SOU GANIS SSUE DES Lys Asp 20	NO NO SM: H TYPH SCRIE Arg 5	Bos termeration	cauru 3P N: SI Ser Arg	EQ II Gln Met	Arg Gly 25	Ser 10 Pro	Leu	Pro	Arg	Asn 30	15 Arg	Asp
237 238 239 240 241 242 243 244 245 246 247 248 249 250 251	(.	iii) (iv) (vi) (xi) Ala 1	ANTI ORIC (A) (F) SEQU	OTHET I-SEN GINAI OTIS UENCE Gln Lys	rical NSE: L SOU GANIS SSUE DES Lys Asp 20	NO NO SM: H TYPH SCRIE Arg 5	Bos termeration	cauru 3P N: SI Ser Arg	EQ II Gln Met	Arg Gly 25	Ser 10 Pro	Leu	Pro	Arg	Asn 30	15 Arg	Asp
237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252	(.	iii) (iv) (vi) (xi) Ala 1	HYPO ANTI ORIO (A) (F) SEQU Ala Thr	OTHET I-SEN GINAI OTIS UENCE Gln Lys	rical NSE: L SOU GANIS SSUE DES Lys Asp 20	NO NO SM: H TYPH SCRIE Arg 5	Bos termeration	cauru 3P N: SI Ser Arg	EQ II Gln Met	Arg Gly 25	Ser 10 Pro	Leu	Pro	Arg	Asn 30	15 Arg	Asp
237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253	(.	iii) (iv) (vi) (xi) Ala 1 Ser	ANTI ORIC (A) (F) SEQU Ala Thr	OTHET  -SEN  GINAL  ORG  TIS  JENCE  Gln  Lys  Ile	FICAL NSE: L SOU GANIS SSUE DES Lys Asp 20 Leu	NO NO SCRIE Arg Met Asp	Bos ter	cauru BP N: SI Ser Arg	Gln Met Gly 40	Arg Gly 25 Arg	Ser 10 Pro	Leu Phe	Pro Gly	Arg Ser 45	Asn 30 Asp	Arg	Asp Gly
237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254	(.	iii) (iv) (vi) (xi) Ala 1 Ser	HYPO ANTI ORIO (A) (F) SEQU Ala Thr	OTHET  -SEN  GINAL  ORG  TIS  JENCE  Gln  Lys  Ile	FICAL NSE: L SOU GANIS SSUE DES Lys Asp 20 Leu	NO NO SCRIE Arg Met Asp	Bos ter	cauru BP N: SI Ser Arg	Gln Met Gly 40	Arg Gly 25 Arg	Ser 10 Pro	Leu Phe	Pro Gly	Arg Ser 45	Asn 30 Asp	Arg	Asp Gly
237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	(.	iii) (iv) (vi) (xi) Ala 1 Ser	ANTI ORIC (A) (F) SEQU Ala Thr	OTHET  -SEN  GINAL  ORG  TIS  JENCE  Gln  Lys  Ile	FICAL NSE: L SOU GANIS SSUE DES Lys Asp 20 Leu	NO NO SCRIE Arg Met Asp	Bos ter	cauru BP N: SI Ser Arg	Gln Met Gly 40	Arg Gly 25 Arg	Ser 10 Pro	Leu Phe	Pro Gly	Arg Ser 45	Asn 30 Asp	Arg	Asp Gly

## SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/469,492

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